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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/749,861

12/31/2003

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OIC0118US

6302

60975 7590 04/21/2011  
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EXAMINER

SHIH, HAOSHIAN

ART UNIT

PAPER NUMBER

2173

MAIL DATE

DELIVERY MODE

04/21/2011

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/749,861	<b>Applicant(s)</b> LLOYD ET AL.	
	<b>Examiner</b> HAOSHIAN SHIH	<b>Art Unit</b> 2173	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 March 2011.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4,5,8-13,16,23 and 26-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,5,8-13,16,23 and 26-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

1. Claims 1-2, 4-5, 8-13, 16, 23 and 26-28 are pending in this application and have been examined in response to application amendment filed on 03/22/2011.
2. Claim 22 is canceled.
3. Claims 26-28 are new.

#### ***Claim Rejections - 35 USC § 112***

4. Claims 1, 9 and 23 are rejected under **35 U.S.C. 112**, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
5. Claims 1, 9 and 23 recite: "wherein the requesting of the re-generation is performed subsequent to the generating the requested display page, and the re-generation of the non-realtime information produces re-generated non-realtime information, and caching the re-generated non-realtime information as cached re-generated realtime information, wherein the cached re-generated realtime information is configured to be used when generating another instance of the requested display page in response to a subsequent request for the requested display page" There is no mention in the original specification. Thus, the limitation includes subject matter that was not described in the original specification. If the examiner has overlooked the

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portion of the original specification that describes the feature of the present invention, then applicant should point it out (by page number and line number) in the response to this office action. Applicant may obviate this rejection by canceling the claim.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 1-2, 4-5, 8-13, 16, 23 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hind et al. (Hind, US 7,346,843 B2) in view of Rajkumar (Rajkumar, US 7,188,216 B1) and in further view of Fliess et al. (Fliess, US 7,168,045 B2) .**

8. As to **INDEPENDENT** claim 1, Hind discloses a method in a computer system, the method comprising: receiving a request from a user (col.3, lines 64-65) to generate a requested display page, wherein the requested display page comprises realtime information and non-realtime information (col.3, lines 64- col.4, lines 5; contents that are available immediately are considered as realtime information, and contents that are delayed are considered as non-realtime information);

the realtime information comprises information displayable without further computation (col.3, lines 66-col.4, lines 1), and

retrieving the realtime information to be included on the requested display page (col.3, lines 65-67; realtime information is displayed first);

if a previously cached version of the non-realtime information is available, generating the requested display page, wherein the requested display page comprises the retrieved realtime information and the previously cached non-realtime information (col.7, lines 63-67; previously cached contents are fetched to reduce unnecessary page generation wait time) ; and

if a previously cached version of the non-realtime information is not available, generating the requested display page, wherein the requested display page comprises the retrieved realtime information and an indication that the non-realtime information is not yet ready for display, and the indication that the non-realtime information is not yet ready for display is provided in a location in which the non-realtime information is to be displayed (fig.3a, “320”, fig.3b “350”; col.5, lines 15-22, lines 35-41; a placeholder message is displayed to indicate that the non-realtime information is not ready),

requesting generation of the non-realtime information (col.5, lines 25-26; a request for the non-realtime information is sent at a pre-determined time interval),

and

generating the requested display page in response to a subsequent request for the requested display page, wherein the requested display page comprises the retrieved realtime information, and the cached non-realtime information (col.5, lines 25-30; the complete page is generated).

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Hind does not specifically disclose caching the generated non-realtime information; request re-generation of the non-realtime information, wherein the requesting of the re-generation is performed subsequent to the generating the requested display page, and the re-generation of the non-realtime information produces re-generated non-realtime information, and caching the re-generated non-realtime information as cached re-generated realtime information, wherein the cached re-generated realtime information is configured to be used when generating another instance of the requested display page in response to a subsequent request for the requested display page; and the realtime information comprises information retrieved from a database, and the non-realtime information comprises information requiring computation to generate the non-realtime information prior to display.

In the same field of endeavor, Rajkumar discloses caching the generated non-realtime information; request re-generation of the non-realtime information, wherein the requesting of the re-generation is performed subsequent to the generating the requested display page and the re-generation of the non-realtime information produces re-generated non-realtime information, and caching the re-generated non-realtime information as cached re-generated realtime information, wherein the cached re-generated realtime information is configured to be used when generating another instance of the requested display page in response to a subsequent request for the requested display page (col.5, lines 5-20; subsequent to the page generation, cached

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content is regenerated and stored to reflect a content update, wherein the regenerated cached content is reused if no update is required).

It would have been obvious to one of ordinary skill in the art, having the teaching of Hind and Rajkumar before him at the time the invention was made, to modify the incremental content generation/display taught by Hind to include web content caching taught by Rajkumar with the motivation being to provide a robust web content delivery (Rajkumar, col.2, lines 37-43). Hind and Rajkumar do not specify the realtime information comprises information retrieved from a database, and the non-realtime information comprises information requiring computation to generate the non-realtime information prior to display; [and displaying] user-specific information [wherein] the user-specific information is pre-selected by a manger of the user.

In the same field of endeavor, Fliess discloses the realtime information comprises information retrieved from a database (col.5, lines 18-22), and the non-realtime information comprises information requiring computation to generate the non-realtime information prior to display (fig.7; col.7, lines 42-48, lines 51-55; non-realtime information are generated via a reporting and analysis module); [and displaying] user-specific information [wherein] the user-specific information is pre-selected by a manger of the user (col.5, lines 60-63; col.6, lines 40-45; a system administrator who manages the user account can configure the type of access provided and the format of the views presented at an individual user level).

It would have been obvious to one of ordinary skill in the art, having the teaching of Hind and Rajkumar and the teaching of Fliess before him at the time the invention was made, to modify the low-latency incremental portal aggregation taught by Hind and Rajkumar to include business object modeling taught by Fliess with the motivation being to provide at least some of the portal page content in a very quick response while waiting for more calculation intensive business object models (Hind, col.5, lines 30-35; Fliess, col.2, lines 24-30).

9. As to claim 2, Hind in view of Rajkumar and Fliess disclose a link for requesting the requested display page (Hind, col.7, lines 20-25).

10. As to claim 4, Hind in view of Rajkumar and Fliess disclose the request to generate the requested display page is received when the user logs on to one of the computer system and a client coupled to the computer system (Fliess, fig.7, "700"; col.8, lines 4-6).

11. As to claim 5, Hind in view of Rajkumar and Fliess disclose the requested display page is a homepage (Fliess, col.5, lines 54-57; the "web portal" provides an entry point for the user interface).



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12. As to claim 8, Hind in view of Rajkumar and Fliess disclose the generated information includes a graphical representation of information (Fliess, col.1, lines 24-25; fig.1, "110"; business information are represented as different graphic objects).

13. As to **INDEPENDENT** claim 9, see rationale addressed in the rejection of claim 1 above.

14. As to claim 10, claim 10 incorporates substantially similar subject matter as claimed in claim 2, and is rejected under the same rationale.

15. As to claim 11, Hind in view of Rajkumar and Fliess disclose wherein the request to generate the requested display page is received from the user (Fliess, fig.7, "700"; col.8, lines 4-6).

16. As to claim 12, claim 12 incorporates substantially similar subject matter as claimed in claim 4, and is rejected under the same rationale.

17. As to claim 13, claim 13 incorporates substantially similar subject matter as claimed in claim 5, and is rejected under the same rationale.

18. As to claim 16, claim 16 incorporates substantially similar subject matter as claimed in claim 8, and is rejected under the same rationale.

19. As to **INDEPENDENT** claim 23, see rationale addressed in the rejection of claim 1 above.

20. As to claim 26, Hind in view of Rajkumar and Fliess disclose drilling down to view underlying information used to generate a selected portion of the display page, in response to a request selecting the selected portion of the display page (Fliess, fig.8, "810"; col.9, lines 10-20; a user clicks on the object "810"), wherein said drilling down comprises retrieving the underlying information used to generate the selected portion of the display page(Fliess, fig.8, "820"; col.9, lines 10-20; underlying information for object "810" is retrieved), and

presenting the underlying information by virtue of one of regenerating the display page comprising the realtime information, the non-realtime information and the underlying information, and generating a new display page comprising the underlying display information (Fliess, fig.8, "810", "820"; col.9, lines 10-20; the selected detail for object "810" is generated and displayed).

21. As to claim 27, claim 27 incorporates substantially similar subject matter as claimed in claim 26, and is rejected under the same rationale.

22. As to claim 28, claim 28 incorporates substantially similar subject matter as claimed in claim 26, and is rejected under the same rationale.

***Response to Arguments***

23. Applicant's arguments with respect to claims 1, 9 and 23 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to HAOSHIAN SHIH whose telephone number is (571)270-1257. The examiner can normally be reached on m-f 0730-1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tadesse Hailu/  
Primary Examiner, Art Unit 2173

HSS